IN THE CLAIMS:

Claims 2 and 11 were previously cancelled. Please now cancel claim 4 without prejudice and amend the claims as follows:

1. (Currently Amended) A method, comprising:

acquiring, or retrieving from storage, seismic data representative of acceleration wavefield;

processing the seismic data representative of the acceleration wavefield to obtain information about the earth's subsurface direct from the seismic data representative of the acceleration wavefield; and

wherein said processing comprises attenuating coherent noise at frequencies over 100 Hz ~~in a high frequency range~~ in the seismic data.

2. (Cancelled)

3. (Previously Presented) A method as claimed in claim 1 wherein the step of attenuating coherent noise in the high frequency range in the seismic data comprises a point source-point receiver noise attenuation step.

4. (Cancelled)

5. (Currently Amended) A method of seismic surveying comprising:

actuating a seismic source to emit seismic energy;

acquiring seismic data representative of the acceleration wavefield using a seismic receiver spaced from the seismic source; and

processing the seismic data according to a method defined in claim[[s]] 1~~, 3 and 4~~.

6. (Original) A method as claimed in claim 5 wherein the seismic source and the receiver are each disposed at or on the earth's surface.

7. (Original) A method as claimed in claim 5 wherein the seismic source is disposed at or on the earth's surface and the receiver is disposed within a borehole.

8. (Original) A method as claimed in claim 5 wherein the seismic source is disposed in a water column and the receiver is located at the base of the water column.

9. (Original) A method as claimed in claim 5 wherein the seismic source is disposed in a water column and the receiver is disposed within a borehole.

10. (Currently Amended) An apparatus, comprising:

an input interface for receiving seismic data representative of acceleration wavefield;

a data processor; and

memory comprising program instructions executable by the processor to:

process the seismic data representative of the acceleration wavefield to obtain information about the earth's subsurface direct from the seismic data representative of the acceleration wavefield; and

attenuate coherent noise at frequencies over 100 Hz ~~in a high frequency range~~ in the seismic data.

11. (Cancelled)

12. (Previously Presented) A seismic surveying arrangement comprising:

a seismic source for emitting seismic energy;

a seismic receiver for acquiring seismic data representative of the acceleration wavefield, the seismic receiver being spaced from the seismic source; and

an apparatus as claimed in claim 10 for processing seismic data acquired by the receiver.

13. (Original) A seismic surveying arrangement as claimed in claim 12 wherein the seismic source and the receiver are each disposed at or on the earth's surface.

14. (Original) A seismic surveying arrangement as claimed in claim 12 wherein the seismic source is disposed at or on the earth's surface and the receiver is disposed within a borehole.

15. (Original) A seismic surveying arrangement as claimed in claim 12 wherein the seismic source is disposed in a water column and the receiver is located at the base of the water column.

16. (Original) A seismic surveying arrangement as claimed in claim 12 wherein the seismic source is disposed in a water column and the receiver is disposed within a borehole.

17. (Previously Presented) A storage medium containing a program for the data processor of an apparatus as defined in claim 10.

18. (Currently Amended) A storage medium containing a program for controlling a programmable data processor to carry out a method as defined in ~~any of~~ claims][[] 1[[, 3 and 4]].

19. (Currently Amended) A program for controlling a computer to carry out a method as defined in ~~any of any of~~ claim[[s]] 1[[, 3 and 4]].